

# HEALTH SCIENCES: PRE-MEDICAL LAB SCI/ BIOTECHNOLOGY (BS)

## Contacts

**Campus:** East Falls

Program Website (<https://www.jefferson.edu/academics/colleges-schools-institutes/health-professions/departments-programs/health-sciences/medical-laboratory-sciences-and-biotechnology/health-sciences-medical-laboratory-sciences-biotechnology-bs.html>)

## Program Description

As a student in this program, you will complete foundation and pre-professional coursework with other pre-medical and health students on Jefferson's East Falls Campus. During the second year, students will begin the process of working with faculty to select concentrations in the Medical Laboratory Sciences & Biotechnology program. Students who maintain progression criteria are guaranteed to matriculate into the professional phase, delivered on the Center City campus. Jefferson's academic advisors and faculty work closely with our students on course selection and academic performance to ensure that each student is on pace to transition into the professional phase of the program.

## Program Highlights

In our stimulating and supportive environment, you will build a strong foundation in sciences and humanities, preparing you for success in upper-division courses in Medical Laboratory Sciences and Biotechnology.

The Department of Medical Laboratory Sciences and Biotechnology offers three different programs:

- Biotechnology
- Cytotechnology and Cell Sciences
- Medical Laboratory Sciences

## 2+2 Pathway

In the BS program (2+2), students complete their first two years of preprofessional coursework on the East Falls campus. Students who meet progression criteria matriculate into upper division professional courses on the Center City campus in the third undergraduate year. They complete their BS in one of the three laboratory programs after their fourth undergraduate year.

## 3+2 Pathway

In the accelerated Health Sciences BS/MS program (3+2) students complete their first three years of preprofessional coursework on the East Falls campus, in partial fulfillment of the BS degree in Health Sciences. Students who meet progression criteria matriculate into upper division professional courses on the Center City campus in the fourth undergraduate year. The first year of professional courses are applied to the Health Sciences bachelor degree. Students' final year of professional courses comprise the MS degree in one of the three programs. Refer to Medical Laboratory Sciences and Biotechnology section for curriculum information on each program.

## Preprofessional Curriculum

- HSCI 2+2 program: 59-62 credits (remaining BS credits completed in professional program)
- HSCI 3+2 program: minimum 87 credits (remaining BS credits + MS credits completed in professional program)

Course	Title	Credits
<b>First Year</b>		
FYS 100	Pathways Seminar	1
WRIT 101	Writing Sem I: Written Comm.	3
AVIS 101	American Visions	3
PSYC 101	Intro to Psychology	3
MATH 102	Pre-Calculus (or Intro Calc)	3-4
BIOL 103 & 103L	Biology I and Biology I Lab <sup>1</sup>	4
HSCI 100	Intro to Health Professions	1
HSCI 230	Intro to Healthcare	2
BIOL 104 & 104L	Biology II and Biology II Lab <sup>1</sup>	4
CHEM 103 & 103L	Chemistry I and Chemistry I Lab <sup>1</sup>	4
CHEM 104 & 104L	Chemistry II and Chemistry II Lab <sup>1</sup>	4
<b>Credits</b>		<b>32-33</b>
<b>Second Year</b>		
WRIT 2XX	Multimedia Communication	3-4
ADIV/GDIV/GCIT	Diversity/Citizenship	3
ADIV/GDIV/GCIT	Diversity/Citizenship	3
ETHC 2XX	Ethics	3
HSCI 225	Applied Statistics	3
BIOL 201 & 201L	Human Anatomy and Physiology I and Human Anat & Physiology I Lab <sup>1</sup>	4
BIOL 202 & 202L	Human Anatomy & Physiology II and Human Anat & Physiology II Lab <sup>1</sup>	4
Select one of the following Science Electives:		3-4
BIOL 207	Principles of Genetics	
BIOL 256	Molecular Genetics	
BIOL 309	App in Molecular Bio/Bioinform	
BIOL 321	Immunology	
CHEM 201	Organic Chemistry I	
PHYC 111	Algebra-base PHYC I-Mach&Thermo (for Biotech & Med Lab Sciences)	
General Elective (optional)		0-3
<b>Credits</b>		<b>26-31</b>
<b>Total Credits</b>		<b>58-64</b>

<sup>1</sup> Science prerequisites

## Accelerated Dual Degree 3+2 BS/MS

- Year 3 Coursework (in partial fulfillment of the BS in Health Sciences; first two years' coursework as listed above in the 2+ Pathway program)

Code	Title	Credits
BIOL 221 & 221L	Microbiology and Microbiology Lab	4
ADIV/GDIV / GCIT	Diversity/Citizenship	3
CGIS 300	Contemporary Global Issues	3

2 Health Sciences: Pre-Medical Lab Sci/Biotechnology (BS)

Code	Title	Credits
ISEM 300	Research Methods	3
General Elective		3
PSYC 2XX	Psychology Elective	3
HSCI 2XX	Health Science Elective	3
HSCI 330	Medical Terminology	3
PHIL 499	Philosophies of the Good Life	3
General Elective (optional)		0-3
<b>Total Credits</b>		<b>28-31</b>

- All grades must be C or higher; AP credit accepted for non-science courses only
- Matriculation requires preferred 3.0 or higher overall GPA and science GPA